



Diesel Exhaust Fluid (DEF) Solutions

EPA Tier 4F and Euro Stage IV Engine Emission Compatibility



AMETEK VIS provides a variety of solutions to display Diesel Exhaust Fluid (DEF). The Selective Catalytic Reduction (SCR) is the leading technology being used to meet 2010 emission regulations. DEF is one of the key elements necessary for the functionality of the SCR process.

C-COM gauges provide a rugged, versatile solution for Tier 4F requirements. They are fully sealed to IP67 and receive data direct from the vehicle J1939 CAN data bus. The C-COM 2G provides the advantages of a graphic display in a compact, 2-inch gauge form-factor. The DEF version displays the current level of DEF from the J1939 CAN databus in an easy-to-read bar chart format. A warning LED will also light to warn of low DEF levels, as well as service warnings. C-COM 2A is a direct read J1939 CAN 2-inch gauge that will display DEF levels in an analog format, including a gauge warning LED to alert low levels.

For Next Generation Instrumentation (NGI) systems, the 2-inch gauges can be added to existing systems with a simple configuration change or as part of a new system. The NGI 2-inch DEF gauge displays DEF in a standard gauge needle format, including a low-level warning LED.

NGI 2-inch DEF with fuel gauge is a 2-in-1 gauge format, providing fuel level data as well as DEF level in a 4-segment bargraph. Both gauges also have a low-level indicator light.

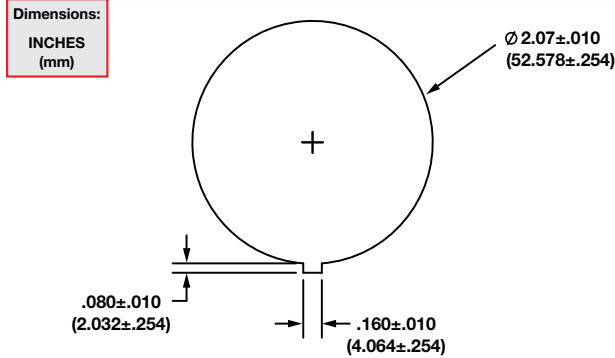
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Specifications

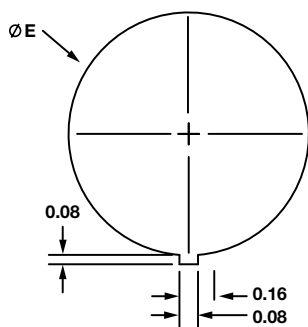
C-COM 2G and 2A Panel Cut-Out



C-COM 2G and 2A Specifications

- 9 to 32 VDC, reverse polarity protected
- Direct J1939 CAN data bus input
- Sealed to IP67 front and rear
- -40 to +85°C operational temperature
- 2A – One configurable input to be used for backlighting, resistive or analog input
- 2G – One input that can be used for backlighting or an analog input

NGI Panel Cut-Out Dimensions

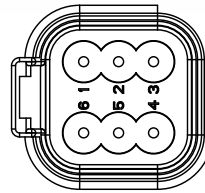


NGI Specifications

- Power, ground and backlighting are from the System Control Unit (SCU) over the NGI bus
- Gauge warning LED
- Gauges can be added to the system with a simple configuration change to the SCU and connected by a 6-pin daisy chain harness

C-COM Electrical Connections

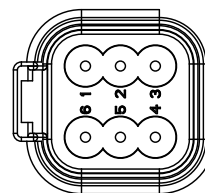
C-COM 2G



PIN	SIGNAL
1	Battery/Ignition
2	Ground
3	Backlight (optional Analog input)
4	J1939+
5	J1939-
6	Output, switch to ground

Connector: Single Deutsch DT06, polarized and locking

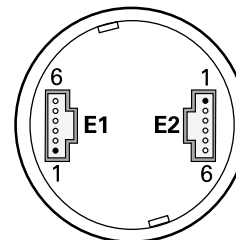
C-COM 2A



PIN	SIGNAL
1	Battery
2	GND
3	Multi: Source Input/Backlighting
4	J1939(+)
5	J1939(-)
6	Ignition

Connector: Single Deutsch DT06, polarized and locking

NGI Electrical Connections



6-Pin NGI Bus Connector (AMP 103645-5 or equivalent)

Pin 1:	NGI Power (+7.6VDC)
Pin 2:	NGI Ground
Pin 3:	NGI Bus Positive (+)
Pin 4:	NGI Bus Negative (-)
Pin 5:	Backlight Ground
Pin 6:	Backlight Power

Note: E1 and E2 are internally connected in parallel.

